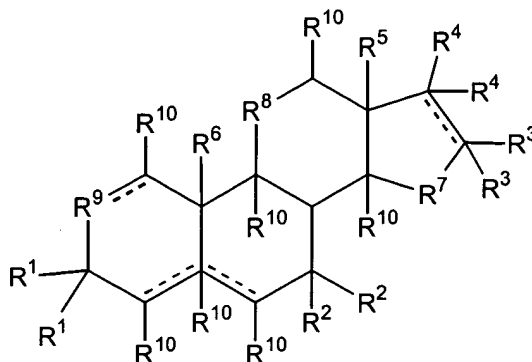


AMENDMENTS TO THE CLAIMS

Claims 1-82 (cancelled)

83. (new): A method to treat or slow the progression of a condition selected from the group consisting of a lipid disorder and arteriosclerosis in a subject having or susceptible to developing the condition comprising administering to the subject an effective amount of a compound having the formula



wherein,

one R^1 is -OH, -SH, $-SR^{PR}$, $-N(R^{PR})_2$, $-NO_2$, -Br, -I, $-OSO_3H$, $-OPO_3H$, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide;

the other R^1 is -H, -CHO, -CHS, $-CH=NH$, -Br, -I, -CN, -SCN, a thioacyl group, a thioacetal, an alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer;

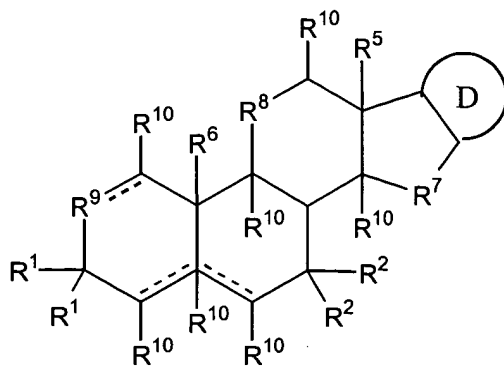
one R^2 is -OH, -SH, $-SR^{PR}$, $-N(R^{PR})_2$, $-NO_2$, $-OSO_3H$, $-OPO_3H$, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide;

the other R^2 is -H, -CHO, -CHS, -CH=NH, -CN, -SCN, -Br, -I, an amide, an amino acid, a peptide, an acyl group, a thioacyl group, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or both R^2 together are =O or =S;

R^3 independently or together are -H, -OH, -OR^{PR}, =O, -SH, -SR^{PR}, =S, =N-OH, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CHO, -CHS, =CH₂, =CH(CH₂)₀₋₁₅CH₃, -CH=NH, -CN, -SCN, -NO₂, -OSO₃H, -OPO₃H, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle or a spiro ring;

one R^4 is -OH, -SH, -SR^{PR}, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -SCN, -NO₂, -OSO₃H, -OPO₃H, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide;

the other R^4 is -H, -CHO, -CHS, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, or R^4 together are =NOH, =CH₂ or =CH(CH₂)₀₋₁₅-CH₃, or R^3 and R^4 together comprise a compound having the formula



R⁵ and R⁶ independently are -H, -OH, -OR^{PR}, -SH, -SR^{PR}, -N(R^{PR})₂, -CHO, -CHS, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group or an optionally substituted alkynyl group;

R¹⁰ independently are -H, -OH, -OR^{PR}, =O, -SH, -SR^{PR}, =S, =N-OH, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CHO, -CHS, =CH₂, =CH(CH₂)₀₋₁₅CH₃, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide, a polymer, or one or more of two adjacent R¹-R⁶ and R¹⁰ comprise an independently selected ketal or thioacetal;

R⁷ is -C(R¹⁰)₂-, -C(R¹⁰)₂-C(R¹⁰)₂-, -C(R¹⁰)₂-C(R¹⁰)₂-C(R¹⁰)₂-, -C(R¹⁰)₂-O-C(R¹⁰)₂-, -C(R¹⁰)₂-S-C(R¹⁰)₂-, -C(R¹⁰)₂-NR^{PR}-C(R¹⁰)₂-, -O-, -O-C(R¹⁰)₂-, -S-, -S-C(R¹⁰)₂-, -NR^{PR}- or -NR^{PR}-C(R¹⁰)₂-;

R⁸ and R⁹ independently are -C(R¹⁰)₂-, -C(R¹⁰)₂-C(R¹⁰)₂-, -O-, -O-C(R¹⁰)₂-, -S-, -S-C(R¹⁰)₂-, -NR^{PR}- or -NR^{PR}-C(R¹⁰)₂-, or one or both of R⁸ or R⁹ independently are absent, leaving a 5-membered ring;

R¹³ independently are C₁₋₆ alkyl;

R^{PR} independently are -H or a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6- or 7-membered ring are optionally independently substituted with -O-, -S- or -NR^{PR}- or where 1, 2 or 3 hydrogen atoms of the heterocycle or where 1, 2 or 3 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with -OR^{PR}, -SR^{PR}, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CHO, -CHS, -CH=NH, -CN, -SCN, -NO₂, an ester, a thioester, a phosphoester, a phosphothioester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, a halogen, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or,

one more of the ring carbons are substituted with =O, =S, =N-OH, =CH₂, or a spiro ring, or

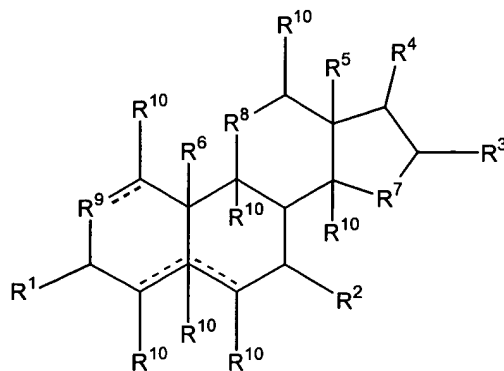
D comprises two 5- or 6-membered rings, wherein the rings are fused or are linked by 1 or 2 bonds.

84. (new): The method of claim 83 wherein the condition is a lipid disorder.

85. (new): The method of claim 84 wherein the lipid disorder is elevated cholesterol, elevated triglyceride or elevated low-density lipoprotein.

86. (new): The method of claim 83 wherein the condition is arteriosclerosis.

87. (new): The method of claim 83 wherein the compound has the formula



wherein, R^4 is -OH, -SH, $-SR^{PR}$, $-N(R^{PR})_2$, $-O-Si-(R^{13})_3$, $=CH_2$, $=CH(CH_2)_{0-15}-CH_3$, $-CH=NH$, $-OSO_3H$, $-OPO_3H$, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide or an optionally substituted oligosaccharide.

88. (new): The method of claim 83 wherein

R^7 is $-CH_2-$ or $-CH_2-CH_2-$;

R^8 is $-CH_2-$ or $-O-$;

R^9 is $-CH_2-$, $-CH(OH)-$, $-O-$ or $-CH(\text{halogen})-$;

R^{10} at the 1, 4, 5, 6, 9, 12 or 14 position is -OH, $-OR^{PR}$, $=O$, -SH, $-SR^{PR}$, $=S$, $=N-OH$, $-N(R^{PR})_2$, $-O-Si-(R^{13})_3$, -CHO, -CHS, $=CH_2$, $=CH(CH_2)_{0-15}CH_3$, $-CH=NH$, -CN, -SCN, $-NO_2$, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide, a polymer, a ketal or a thioketal and the remaining R^{10} are -H.

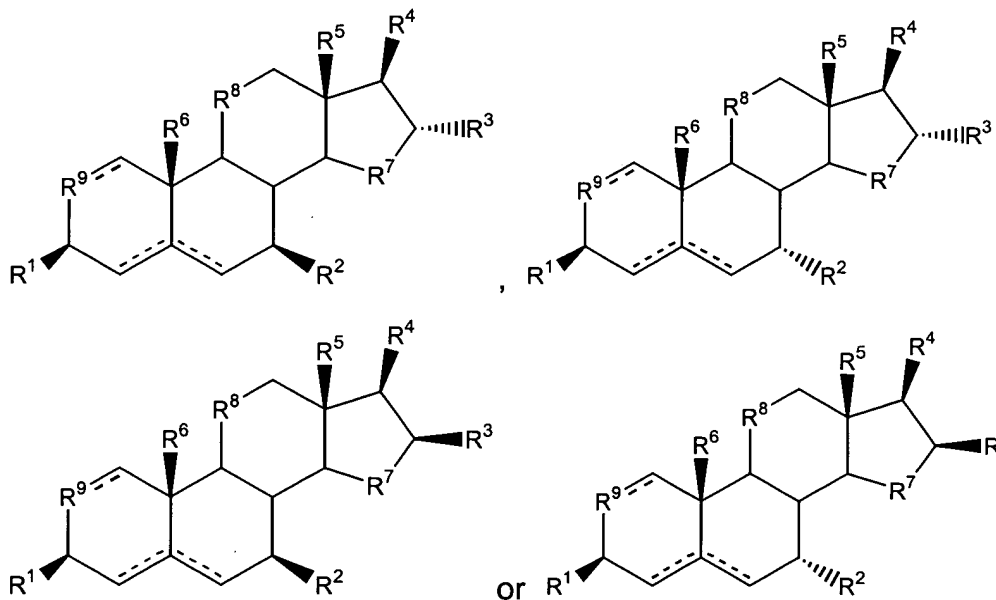
89. (new): The method of claim 88 wherein the R^{10} is at the 1 position.

90. (new): The method of claim 89 wherein the R^{10} at the 1 position is -OH, =O, -F, -Cl, -Br, -I, an ester, an ether or a carbonate.

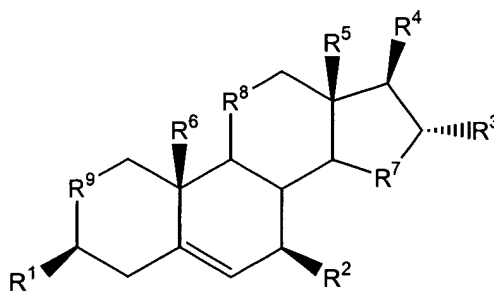
91. (new): The method of claim 88 wherein the R^{10} is at the 12 position.

92. (new): The method of claim 89 wherein the R^{10} at the 12 position is
5 -OH, =O, -F, -Cl, -Br, -I, an ester, an ether or a carbonate.

93. (new): The method of claim 83 wherein the compound has the formula



94. (new): The method of claim 93 wherein the compound has the formula



95. (new): The method of claim 94 wherein R^2 is -OH, -SH, $-SR^{PR}$, $-N(R^{PR})_2$, an ester, a thioester, a phosphoester, a phosphothioester, a
15 phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide.

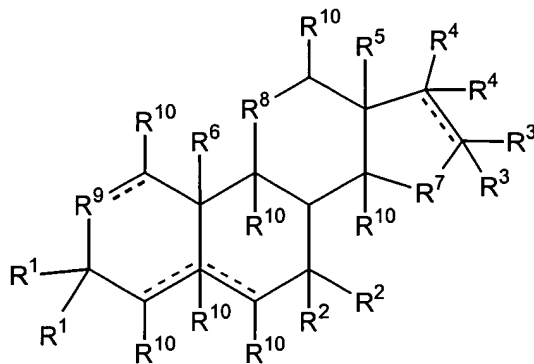
96. (new): The method of claim 95 wherein the cardiovascular condition is a lipid disorder.

97. (new): The method of claim 96 wherein the lipid disorder is elevated cholesterol.

5 98. (new): The method of claim 97 wherein R^1 , R^2 and R^4 are -OH, R^3 is -H, R^5 and R^6 are -CH₃, R^7 , R^8 and R^9 are -CH₂- and hydrogen atoms at the 8, 9 and 14 positions respectively are in the β -, α - and α -configurations.

99. (new): The method of claim 97 wherein R^1 , R^2 and R^4 are -OH, R^3 is -H, R^5 and R^6 are -CH₃, R^7 is -O-, R^8 and R^9 are -CH₂- and hydrogen atoms at the 8, 9 and 14 positions respectively are in the β -, α - and α -configurations.

100. (new): A method to treat or ameliorate neutropenia in a subject having or susceptible to developing neutropenia comprising administering to the subject an effective amount of a compound having the formula



wherein,

one R^1 is -OH, -SH, -SR^{PR}, -N(R^{PR})₂, -NO₂, -Br, -I, -OSO₃H, -OPO₃H, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide;

the other R^1 is -H, -CHO, -CHS, -CH=NH, -Br, -I, -CN, -SCN, a thioacyl group, a thioacetal, an alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an

optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer;

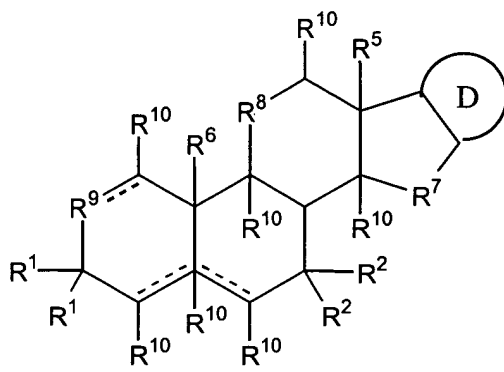
one R^2 is -OH, -SH, -SR^{PR}, -N(R^{PR})₂, -NO₂, -OSO₃H, -OPO₃H, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide;

the other R^2 is -H, -CHO, -CHS, -CH=NH, -CN, -SCN, -Br, -I, an amide, an amino acid, a peptide, an acyl group, a thioacyl group, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or both R^2 together are =O or =S;

R^3 independently or together are -H, -OH, -OR^{PR}, =O, -SH, -SR^{PR}, =S, =N-OH, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CHO, -CHS, =CH₂, =CH(CH₂)₀₋₁₅CH₃, -CH=NH, -CN, -SCN, -NO₂, -OSO₃H, -OPO₃H, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle or a spiro ring;

one R^4 is -OH, -SH, -SR^{PR}, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CN, -SCN, -NO₂, -OSO₃H, -OPO₃H, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide;

the other R^4 is -H, -CHO, -CHS, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, or R^4 together are
 5 =NOH, =CH₂ or =CH(CH₂)₀₋₁₅-CH₃, or R^3 and R^4 together comprise a compound having the formula



C1
cont'd
 10 R^5 and R^6 independently are -H, -OH, -OR^{PR}, -SH, -SR^{PR}, -N(R^{PR})₂, -CHO, -CHS, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group or an optionally substituted alkynyl group;

R^{10} independently are -H, -OH, -OR^{PR}, =O, -SH, -SR^{PR}, =S, =N-OH, -N(R^{PR})₂, -O-Si-(R¹³)₃, -CHO, -CHS, =CH₂, =CH(CH₂)₀₋₁₅CH₃, -CH=NH, -CN, -SCN, -NO₂, -F, -Cl, -Br, -I, an ester, a thioester, a phosphoester, a
 15 phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted
 20 alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide, a polymer, or one or more of two adjacent R^1 - R^6 and R^{10} comprise an independently selected ketal or thioacetal;

R^7 is $-C(R^{10})_2-$, $-C(R^{10})_2-C(R^{10})_2-$, $-C(R^{10})_2-C(R^{10})_2-C(R^{10})_2-$, $-C(R^{10})_2-O-C(R^{10})_2-$, $-C(R^{10})_2-S-C(R^{10})_2-$, $-C(R^{10})_2-NR^{PR}-C(R^{10})_2-$, $-O-$, $-O-C(R^{10})_2-$, $-S-$, $-S-C(R^{10})_2-$, $-NR^{PR}-$ or $-NR^{PR}-C(R^{10})_2-$;

R^8 and R^9 independently are $-C(R^{10})_2-$, $-C(R^{10})_2-C(R^{10})_2-$, $-O-$, $-O-C(R^{10})_2-$, $-S-$, $-S-C(R^{10})_2-$, $-NR^{PR}-$ or $-NR^{PR}-C(R^{10})_2-$, or one or both of R^8 or R^9 independently are absent, leaving a 5-membered ring;

R^{13} independently are C_{1-6} alkyl;

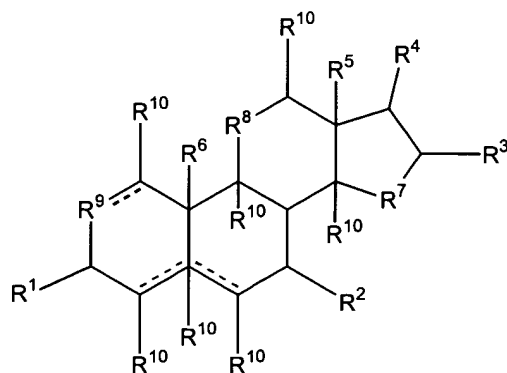
R^{PR} independently are $-H$ or a protecting group;

D is a heterocycle or a 4-, 5-, 6- or 7-membered ring that comprises saturated carbon atoms, wherein 1, 2 or 3 ring carbon atoms of the 4-, 5-, 6- or 7-membered ring are optionally independently substituted with $-O-$, $-S-$ or $-NR^{PR}-$ or where 1, 2 or 3 hydrogen atoms of the heterocycle or where 1, 2 or 3 hydrogen atoms of the 4-, 5-, 6- or 7-membered ring are substituted with $-OR^{PR}$, $-SR^{PR}$, $-N(R^{PR})_2$, $-O-Si-(R^{13})_3$, $-CHO$, $-CHS$, $-CH=NH$, $-CN$, $-SCN$, $-NO_2$, an ester, a thioester, a phosphoester, a phosphothioester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, a halogen, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide or a polymer, or,

one more of the ring carbons are substituted with $=O$, $=S$, $=N-OH$, $=CH_2$, or a spiro ring, or

D comprises two 5- or 6-membered rings, wherein the rings are fused or are linked by 1 or 2 bonds.

101. (new): The method of claim 100 wherein the compound has the formula



wherein, R^4 is -OH, -SH, $-SR^{PR}$, $-N(R^{PR})_2$, $-O-Si-(R^{13})_3$, $=CH_2$, $=CH(CH_2)_{0-15}-CH_3$, $-CH=NH$, $-OSO_3H$, $-OPO_3H$, -Br, -I, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a thioether, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide or an optionally substituted oligosaccharide.

102. (new): The method of claim 101 wherein

R^7 is $-CH_2-$ or $-CH_2-CH_2-$;

R^8 is $-CH_2-$ or $-O-$;

R^9 is $-CH_2-$, $-CH(OH)-$, $-O-$ or $-CH(\text{halogen})-$;

R^{10} at the 1, 4, 5, 6, 9, 12 or 14 position is -OH, $-OR^{PR}$, =O, -SH, $-SR^{PR}$, =S, $=N-OH$, $-N(R^{PR})_2$, $-O-Si-(R^{13})_3$, -CHO, -CHS, $=CH_2$, $=CH(CH_2)_{0-15}CH_3$, -CH=NH, -CN, -SCN, $-NO_2$, -F, -Cl, -Br, -I, an ester, a thioester, an amide, an amino acid, a peptide, an ether, a thioether, an acyl group, a thioacyl group, a carbonate, a carbamate, a thioacetal, an optionally substituted alkyl group, an optionally substituted alkenyl group, an optionally substituted alkynyl group, an optionally substituted aryl moiety, an optionally substituted heteroaryl moiety, an optionally substituted heterocycle, a spiro ring, an optionally substituted monosaccharide, an optionally substituted oligosaccharide, a nucleoside, a nucleotide, an oligonucleotide, a polymer, a ketal or a thioketal and the remaining R^{10} are -H.

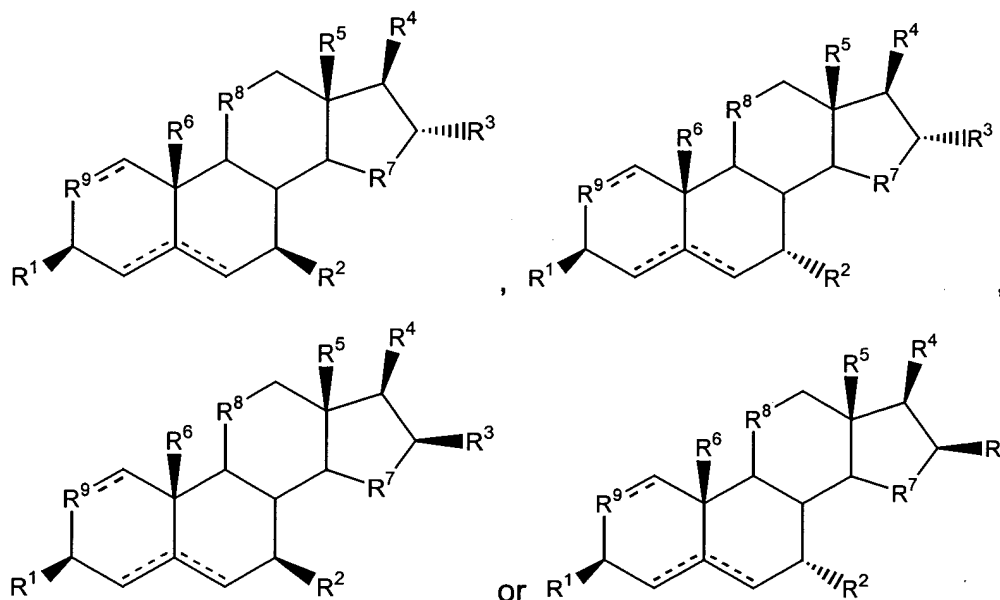
103. (new): The method of claim 102 wherein the R^{10} is at the 4-position.

104. (new): The method of claim 103 wherein the R^{10} at the 4-position is -OH, =O, -F, -Cl, -Br, -I, an ester, an ether or a carbonate.

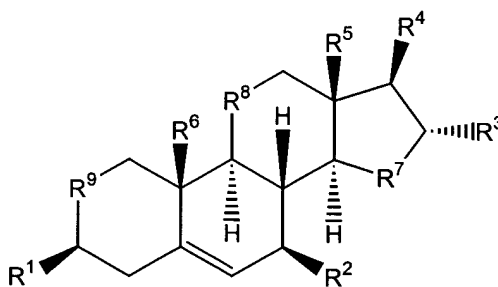
105. (new): The method of claim 104 wherein the R^{10} is at the 1-position.

106. (new): The method of claim 105 wherein the R^{10} at the 1-position is
5 -OH, =O, -F, -Cl, -Br, -I, an ester, an ether, a carbonate or a carbonate.

107. (new): The method of claim 101 wherein the compound has the formula



108. (new): The method of claim 107 wherein the compound has the formula



109. (new): The method of claim 108 wherein R^2 is -OH, -SH, -SR^{PR}, -
15 N(R^{PR})₂, an ester, a thioester, a phosphoester, a phosphothioester, a phosphonoester, a phosphiniester, a sulfite ester, a sulfate ester, an amide, an amino acid, a peptide, a carbonate, a carbamate, a thioacetal, an optionally substituted monosaccharide or an optionally substituted oligosaccharide.

110. (new): The method of claim 109 wherein R^2 is -OH or an ester.

111. (new): The method of claim 109 wherein R^1 , R^2 and R^4 are -OH, R^3 is -H, R^5 and R^6 are -CH₃ and R^7 , R^8 and R^9 are -CH₂-.

112. (new): The method of claim 109 wherein R^1 , R^2 and R^4 are -OH, R^3 is -H, R^5 and R^6 are -CH₃ and R^7 is -O- and R^8 and R^9 are -CH₂-.

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